"1st & final Bill."

M. A. R. 57 (Rule 116) **No. D**
Measurement Book

347030

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency..... Sri. R. Shivaram. No. 4/13, Avalamma chowtri Layout Mayadi Main Rd B'lore-23.

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Name of Work :- Drilling of Borewells and providing pump, motor & other works in Abbigere, Chikkasandra, Shettyhalli Nedarahalli and K.G. Halli area in ward no. 12 Shettyhalli sub division.						
	Estimated Cost :- Rs 200.00 Lakhs.						
	Job Code :- 012-19-000012						
	Admin Approval :- EE/DD/AS/ /2018-~~19~~ dated. 28.01.2019.						
	Technical Sanction :- CE/D2/TS/103/2018-19 dated. 28.01.2019.						
	Tender Notification :- BBMP/EE/DD/Ten/~~27~~/2018-19. Dtd. 21.02.2019.						

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
Nov 11	Geophysical investigation by ISR for sinking borewells for supplying drinking water to the habitation either through the hand pump, MNI (a) PHS.S.S. by Vertical Electrical Soundings by adopting Veenor (a) Schlumbergen's method, including reconnaissance Survey of geological formation, Geological investigation & Geophysical survey Specifications and supervision & Engineer in charges of the work.						
	(i) Basavanna Layout (Vidyanike Nagar)				=	1.	
	(ii) Chikkaranga Apartment Road				=	1.	
	(iii) Chikkaranga 2nd cross Borewells (Near Raghavendra Homes)				=	1.	
	(iv) M.P. Layout main 4th cross				=	1.	
	(v) Kalamandira Ramaji Temple & Gayatri mandira Near				=	1.	

M. A. R. 57 (Rule 116)
Measurement Book
No. D

347031

Serial No. .....
Name of work ..... From ..... To .....
Name of Contractor or nature of Agency.....
Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	(vi) Kalamandira 12th cross opp. Manufactory				=	1.	
	(vii) Behind Rama Badavane 9th cross 4th Main				=	1.	
	(viii) 6th cross Rayawada Layout K.G. Halli				=	1.	
	(ix) Opp. Venkateshwara Petrol Bunk Abbigere				=	1.	
	(x) Maramma Temple Madapalli (Opp)				=	1.	
	(xi) 8th cross Venkateshwara Layout				=	1.	
	(xii) L.V. Enclave near Vinayaka Layout				=	1.	
	(xiii) R.R. Colony main Road Medahalli				=	1.	
	(xiiii) Nandana Nagara 3rd cross Shettyhalli				=	1.	
	(xv) Near Eskay Hospital Shettyhalli				=	1.	

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	(xvi) Anjanadri Badavane 4th coop shejwadi	1,					
		Total =	16 Nos.				
		@ Rs. 2151.65,				= 34427.05.	
Sr.No.02	Sinking of boreholes of 165mm dia cleaning by pneumatic rig of capacity 250 PSIG and above 900 CMF and above in all strata including Over burden upto 20m. fixing of casing pipes, Collars and Cap with necessary cutting threading & welding including transportation of rig and supporting vehicles Covers						

AEE

M. A. R. 57 (Rule 116) No. D
Measurement Book

347032

Serial No. .....
Name of work ..... From ..... To .....
Name of Contractor of nature of Agency.....
Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	charges & cost of consumable etc, compressor including yield testing at the final depth with minimum working of compressor for one hour (excluding cost of casing pipe, collars, cap etc complete as per specifications and as per the direction of Engineer-in-charge of the work)						
	At. 0.00 to 50.00 mtr.						
	As per the measurement in E-Measurement Book page-02						
		Total =	800.00				
		Total =	800.00 Rmt.				
	@ Rs 349.85,					2,79,879 = 00	

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Sl.No.03. AT 50.00 to 100.00 mtr.						
	As per the E-Measurt Book. Page-03						
					Total =	800.00	
					Total =	800.00 Rmtr.	
	AEE.				@ Rs 457.32	= 3,65,856=00.	
	Sl.No.04. AT 100.00 to 150.00 mtr.						
	As per the E-Measurt Book Page-04						
					Total =	800.00	
					Total =	800.00 Rmtr.	
	AEE				@ Rs 508.38	= 406704=00.	

M. A. R. 57 (Rule 116) No. D
Measurement Book

Serial No. .....
Name of work ..... From ..... To .....
Name of Contractor of nature of Agency.....
Date of commencement of work.....

347033

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Sl.No.05 AT 150.00 to 200.00 mtr.						
	As per the E-Measurt Book				Page-05		
					Total =	800.00	
	AEE				Total =	800.00 Rmtr.	
					@ 537.35	= 4,29,880=80	
	Sl.No.06. AT 200.00 to 250.00 mtr.						
	As per the E-Measurt Book				Page-06 Total =	800.00	
					Total =	800.00 Rmtr.	
	AEE				@ 621.96	= 497564=16	

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Sl.No.07 AT 250.00 to 300.00mth.						
	As per the E-Measurement Books, Page - 07					Total =	800.00
						Total =	800.00 Rmt.
	AEE					@ Rs 800.00	666.54, = 5,33,232=00
	Sl.No.08. AT 300.00 to 350.00 mth						
	As per the E-Measurement Books, Page - 08					Total =	800.00
						Total =	800.00 Rmt.
	AEE					@ Rs 711.13,	5,68,906 = 08

M. A. R. 57 (Rule 116)
Measurement Book

No. D

Serial No. .....
Name of work ..... From ..... To .....
Name of Contractor of nature of Agency.....
Date of commencement of work.....

347034

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Sl.No.09. AT 350.00 to Labour						
	As per the E-Measurement Books. Page - 09.					Total	400.00
						Total =	400.00 Rmt.
	AEE					@ Rs 752.29	= 300916 = 00.
	Sl.No.10. Supply of ISI Marked 175mm Nominal bore plain end steel tubing pipe grade of steel fe 410 of wall thickness 5.4mm thick Confirming to IS 1387/1933 and manufactured by Basic open hearth or basic Oxygen process in random length of 5 to 7 mth Both Ends Threaded Coupling						

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	to IS 554/1985, One end fixed with socket conforming IS 4270:2001 and the other end with screwed pipes. All pipes shall be reasonably free from defects						
	As per the E-measurement Book page-10					Total 1200.00	
						Total = 1200.00 Rmt.	
	@ Rs 1490.75					= 1764900.00.	
0.11	Providing and fixing 250mm dia PVC pipe GW laid for R walls						
	As per the E-measurement Book page - 11					Total = 480 Nos.	
						Total = 480.00 Rmt	
	@ Rs 1221.00					5,86,080 = 00.	

AEE

M. A. R. 57 (Rule 116) No. D
Measurement Book

347035

Serial No. .....
Name of work ..... From ..... To .....
Name of Contractor of nature of Agency.....
Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
Sl.No.12,	providing 175mm dia M.S. cap coupling arm. Specifications As per E-MB- Page-12					Total 16 Nos	
						Total = 16.00 Nos.	
	@ Rs 111 = 00,					1776 = 00.	
Sl.No.13.	Providing 175mm dia M.S. collar coupling arm. Specifications As per E-MB page-13					Total 128.00	
						Total = 128.00 Each	
	@ Rs 164.50,					21312 = 00.	

AEE

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
Sl.No.14.	Supply and delivery at site new texmo./monoral/Lasi/saras Atlanta ele suitable HP deep well submersible pumpset] suitable for vertical installations in 150mm dia borewell having 4 style stage @ mentistyes of pump close coupled by means of stainless steel coupling to suitable HP suitable speed. totally enclosed and filled with pure chilly water squirrel cage induction motors suitable equitrom of 3HP 50Hz 380/440 Volts AC supply ele complete with all specifications AI per the E-measurement Book/Register Pg-14						
					Total	21.00	

Total = 21.00 Nos.

@ Rs 74711.75 = 15,68,946.68

AEE

M. A. R. 57 (Rule 116)
Measurement Book

No. D

347036

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
Sl.No.15,	Supplying and drawing 3 Core PVC sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper conductor conforming to table 3 class 5 of IS 8130-1984 and virgin grade PVC insulations and sheathed suitable for working voltage up to 1100 Volts 4 Sqmm 756 strands 0.3mm dia ele complete alyn specifications AI per the E-measurement Book/Register Pg-15						
					Total	13040.00	

Total 13040.00 Rmtr.

@ Rs 209.46 , 2,73,1319=28

AEE

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
Sl.No.22	Providing, Laying & joining GI pipes conforming to IS Specification ~~of Approved make~~ with fitting such as collar, bends, Elbows Tees, nipples plugs with ~~cutting~~ etc complete as per Specification As per Ltr - E.MB. Measured and recorded page -22						
					Total	6150=00	
					Total	6150=00 Rmtr.	
					@ Rs 488.29,	3002977=35	
						3002984=00	
No.23	Providing sommchia GI Collars etc complete as per Specifications As per Ltr E-measurements Books, Measured & recorded Page – 23						

AEE

M. A. R. 57 (Rule 116) Measurement Book

No. D 347039

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
					Total	1000	
					Total	= 1000 Nos.	
					@ Rs 211.79,	211788.00	
						211790.00	
Sl.No.24	Erection of Controlled panel board and Meter with with necessary materials and Labours including providing Cement Concrete foundation bed Cement, Door type etc, As per Ltr E-MB, measurements measured & recorded. Page - 24						
					Total	21.00	
					Total	21.00 Nos.	
					@ Rs 471.75,	9906.75	

AEE

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MEASUREMENT BOOK

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Sl.No.25, Supplying & TPST with revitable porcelain channel in S.M. Enclosure made out of 14 SWG. powder Coated paint fagund Colour 32 Amps Group 'A' Elc, Complt. as per Specifications						
	As per E-MB, measurements measured & Recorded in page-25				Total	16.00	
					Total =	16.00	Nos.
					@ Rs 2073.48,	33175.68	
	AEE						
	No.26, Supplying & fixing 20×10×2.5 polished wood board making of not less than 15 cm thick plank with front planks One end provided						

M. A. R. 57 (Rule 116) No. D
Measurement Book

347040

Serial No. .....
Name of work ..... From ..... To .....
Name of Contractor of nature of Agency.....
Date of commencement of work.....

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	for holding at other end fixing thickness of value etc complete as per specifications						
	As per. E-MB, measurements measured & recorded in page-26				Total	16.00	
					Total =	16.00	Nos.
					@ Rs 335.22,	5363.52	
	AEE						
	Sl.No.27, Supplying and fixing LED type panel board indicating lamp with required colour for 220 V. AC 50 Hz. 12/24 V DC Elc complt. as per Specifications						

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions: Number	Length	Breadth	Depth	Contents	Reference to last Measurement
1	2	3	4	5	6	7	8
	As prlm E-MB measmt measured & recorded in page -27				Total = 21.00		
					Total	21.00 Nos.	
					@ Rs. 477.30,	10023.30.	
	AEE						
SL.No.28,	Wiring for lighting/power cmkt any One of FRLS, PVC insulated 1100V grade multistrand copper conductor single core wire in open @ Concealed cmkt any specifications,						
	As prlm E-MB, measmt measured & recorded in page -28				Total	560.00	
	AEE				Total = 560.00 Rmtr		

M. A. R. 57 (Rule 116) No. D
Measurement Book

347041

Serial No. .....
Name of work ..... From ..... To .....
Name of Contractor of nature of Agency.....
Date of commencement of work.....

Date	Full description, etc, of work	Dimensions: Number	Length	Breadth	Depth	Contents	Reference to last Measurement
1	2	3	4	5	6	7	8
					@ Rs. 46.73,	2619.88.	
SL.No.29,	fixing a shunt capacitor upto 5KVAR capacity with necessary clamps, bolts & nuts @ existing loaders @ metal board including banking y-manethain One capacitor cmkt any specifications						
	As per E-MB, Measmt measured & recorded in page				Total 48.00		
	AEE				Total	48 @ Nos	
					@ Rs 133.20,	6393 = 60.	

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MEASUREMENT BOOK

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Sl.No.36, Digging of trench of 0.6mm x 0.5mtr wide refilling the trench to the required ground level and consolidating etc, complete as per Specification.						
	As per E-MB, measurement Measured & Recorded in page-36				Total	640.00	
					Total =	640.00 Rmtr	
					@ Rs 117.66,	75302.40	
	Sl.No.37, Supply & fixing LT Cast Iron pot heads suitable for 1.1kV class 16 Sqmm US Cable filled with necessary bitumen insulating compound complete as per Specification.						

AEE

M. A. R. 57 (Rule 116) No. D

Measurement Book

347044

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	As per E-MB, measurement Measured & Recorded in page-37				Total	16.00.	
					Total =	16.00 Nos/Each.	
					@ Rs. 310.80,	4972.80.	
	Sl.No.38, Supply and fixing porcelain fuse channel with cut out on the existing wooden board & wiring completed 32 amps etc complete as per Specification						
	As per E-MB, measurement measured & recorded in page-38				Total	48.00	
					Total	48.00	
					@ Rs 199.80,	9590.40	

AEE

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MEASUREMENT BOOK

Date	Full description, etc. of work	Dimensions: Number	Length	Breadth	Depth	Contents	Reference to last Measurement
1	2	3	4	5	6	7	8
	Providing & fixing in position brass gate valve with C.I. wheel						
Sl.No.39.	of approved quality 65mm nominal bore including cost of all materials, labour and TOM of equipments with all leads etc complete as per specifications.						
	As per E-MB, measurement measured & recorded in page-39				Total	90.00	
AEE					Total =	90.00	Nos.
					@ Rs 2474.39		222695.08
Sl.No.40	Cutting & Road Enclosure for pipeline trenches and disposing of the excavated stuff as directed including						

M. A. R. 57 (Rule 116) No. D
Measurement Book

347045

Serial No. .....
Name of work ..... From ..... To .....
Name of Contractor of nature of Agency.....
Date of commencement of work.....

Date	Full description, etc, of work	Dimensions: Number	Length	Breadth	Depth	Contents	Reference to last Measurement
1	2	3	4	5	6	7	8
	barricadding danger lighting etc. complete as per specifications,						
	As per. E-MB. measurement measured & Recorded in page-41				Total	432	
a					Total =	432	cum.
AEE					@ Rs 400.04,		172817.00.
Sl.No.41,	Earth work excavation for foundations of buildings, water Supply, Sanitary Lines and Electrical conduits etc in pit ⓦ in to the 1.50m. and above in width in Hard soil						

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MEASUREMENT BOOK

Date	Full description, etc. of work	Dimensions: Number	Length	Breadth	Depth	Contents	Reference to last Measurement
1	2	3	4	5	6	7	8
	Sl.No.43, Providing and fixing in trenches galvanised / mild steel tubes (medium grade) 32mm dia nominal bore with all fittings including cost of all materials, Labour charges, TOM of Govt and testing etc, complete as per Specifications						
	As per E-MB, measurement measured and recorded in Page – 66						
	AEE				Total	350.00	
					Total =	350.00 Rmtr.	
					@ Rs 1,496.52,	159782.88	

M. A. R. 57 (Rule 116) No. D
Measurement Book
347047

Serial No. .....
Name of work ..... From ..... To .....
Name of Contractor of nature of Agency.....
Date of commencement of work.....

Date	Full description, etc, of work	Dimensions: Number	Length	Breadth	Depth	Contents	Reference to last Measurement
1	2	3	4	5	6	7	8
	Sl.No 44 Refilling available Earth around pipe line, Casted in layers not Exceeding 20cms in depth, Compacting each deposited layer by ramming after watering with lead upto 50m and lifting to 1.50m. including cost of all Labour Etc. Complete as per Specifications,						
	As per E-MB measurement measured and recorded in page – 77						
	AEE				Total	3143.36	
					Total =	3143.36 Cum.	
					@ Rs 142.37,	4,47,515.76	
						447520 = 00	

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions: Number	Length	Breadth	Depth	Contents	Reference to last Measurement
1	2	3	4	5	6	7	8
	Sl.No.45 Conveying the excavated Earth silt, debris and over burden Earth etc to lead of 10kms distance by using private vehicle this includes the cost of Roadcess & unloading Charges etc. complete as per specifications and as per the direction of Engineer Incharge of the Works.						
	As per E-MB measurements measured & recorded in						Page - 88
	Total					1047.70	
	Total = 1047.70 Cum @ Rs 113.14					118549.37	
	Grand Total. = 1,88,10,953.20.						

Verified

19/8/19

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಕೆಬ್ಬಹಳ್ಳಿ ಉಪವಿಭಾಗ, ದಾಸರಹಳ್ಳಿ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಎಸ್.ಎಂ ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು

Audited and admitted for Rs. 2105926 = 00
Passed by Cheque for Rs. 20239003 = 00
(Serial Nos. Two lakh thirty ... and three only)
Name of work ... Rs. 219923 = 00
Name of Contractor or Nature of Agency ...
by advice
Date of commencement of work ...
Accounts Clerk

Exe. Engineer
B.B.M.P. Dasarahalli Division

M. A. R. 57
Measuren

No. D 347048

From ... To ...

Particulars of work (Initial description, etc, of work)	Number	Length	Breadth	Depth	Contents	Reference to last Measurement
2	3	4	5	6	7	8
Add 12% GST.				=	22,57,315.20	
Grand Total				=	2,10,68,266.49	

Verified

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Dasarahalli Division, Bangalore-73.

30/09/2019.

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಕೆಬ್ಬಹಳ್ಳಿ ಉಪವಿಭಾಗ, ದಾಸರಹಳ್ಳಿ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಎಸ್.ಎಂ ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು

19/08/2019.

2,10,68,278 = 00

Limited as per work order 2,10,57,926 = 00

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